

WHAT IS CLAIMED IS:

1. An image-signal processing apparatus for generating a still-image signal in any one frame from a video signal including either an interlaced image signal having first and second fields of an image in which adjacent fields have different time axes or a progressive image signal having first and second fields obtained by alternately extracting every other horizontal scanning line from images having different time axes in alternate frames, comprising:

identification means for identifying the interlaced image signal or the progressive image signal included in the video signal;

first and second image memories for storing two consecutive fields of images included in the video signal;

a motion detection filter for detecting motion by comparing the images stored in the first and second image memories;

an image interpolation filter for, when motion is detected by the motion detection filter in a first set of images stored in the first and second image memories, modifying the first set of images with a second set of images stored in the first and second image memories;

an image-quality adjustment filter for applying image-quality adjustment corresponding to the image interpolation

filter to the second set of images stored in the first and second image memories;

bypass means for bypassing the image interpolation filter and the image-quality adjustment filter to extract the first set and the second set of images stored in the first and second image memories; and

signal output means for alternately extracting, in fields, the first set and the second set of images sent from the image interpolation filter and from the image-quality adjustment filter when the identification means either identifies the interlaced image signal or cannot identify the interlaced image signal, and for alternately extracting, in fields, the first set and the second set of images sent from the bypass means when the identification means identifies the progressive image signal.

2. An image-signal processing apparatus according to Claim 1, further comprising a reproduction apparatus for reproducing the video signal from any recording medium and for generating a reproduction output signal which form the still-image signal.

3. An image-signal processing apparatus according to Claim 1, further comprising a display apparatus for receiving the video signal through wire or without wire and

for displaying the still-image signal.

4. An image-signal processing method for generating a still-image signal in any one frame from a video signal including either an interlaced image signal having first and second fields of an image in which adjacent fields have different time axes or a progressive image signal having first and second fields obtained by alternately extracting every other horizontal scanning line from images having different time axes in alternate frames, comprising:

an identification step of identifying the interlaced image signal or the progressive image signal included in the video signal;

a step of storing two consecutive fields of images included in the video signal in first and second image memories;

a motion detecting step of detecting motion by comparing the images stored in the first and second image memories;

a step of, when motion is detected in the motion detecting step in a first set of images stored in the first and second image memories, modifying the first set of images with a second set of images stored in the first and second image memories by using an image interpolation filter;

a step of applying image-quality adjustment to the

second set of images stored in the first and second image memories by using an image-quality-adjustment filter corresponding to the image interpolation filter ;

a bypass step of bypassing the image interpolation filter and the image-quality adjustment filter to extract the first set and the second set of images stored in the first and second image memories; and

a signal output step of alternately extracting, in fields, the first set and the second set of images sent from the image interpolation filter and from the image-quality adjustment filter when the interlaced image signal is identified or cannot be identified in the identification step, and of alternately extracting, in fields, the first set and the second set of images extracted in the bypass step when the progressive image signal is identified in the identification step.

5. An image-signal processing method according to Claim 4, further comprising a step of reproducing the video signal from any recording medium and of generating a reproduction output signal which form the still-image signal.

6. An image-signal processing method according to Claim 4, further comprising a step of receiving the video signal through wire or without wire and of displaying the

still-image signal.

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